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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/844,379	04/27/2001	Alan H. Singleton	01-199	1570

22206 7590 07/14/2003

**FELLERS SNIDER BLANKENSHIP**  
**BAILEY & TIPPENS**  
**THE KENNEDY BUILDING**  
**321 SOUTH BOSTON SUITE 800**  
**TULSA, OK 74103-3318**

[REDACTED] EXAMINER

STRICKLAND, JONAS N

[REDACTED] ART UNIT [REDACTED] PAPER NUMBER

1754

DATE MAILED: 07/14/2003

11

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application N . 09/844,379	Applicant(s) SINGLETON ET AL.
	Examiner Jonas N Strickland	Art Unit 1754
<p>-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --</p> <p><b>Period for Reply</b></p> <p>A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.</p> <ul style="list-style-type: none"> <li>- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.</li> <li>- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).</li> <li>- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>		
<p><b>Status</b></p> <p>1)<input checked="" type="checkbox"/> Responsive to communication(s) filed on <u>28 April 2003</u>.</p> <p>2a)<input type="checkbox"/> This action is FINAL.                    2b)<input checked="" type="checkbox"/> This action is non-final.</p> <p>3)<input type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213.</p>		
<p><b>Disposition of Claims</b></p> <p>4)<input checked="" type="checkbox"/> Claim(s) <u>89-109</u> is/are pending in the application.</p> <p>4a) Of the above claim(s) _____ is/are withdrawn from consideration.</p> <p>5)<input checked="" type="checkbox"/> Claim(s) <u>89-106</u> is/are allowed.</p> <p>6)<input checked="" type="checkbox"/> Claim(s) <u>107 and 108</u> is/are rejected.</p> <p>7)<input type="checkbox"/> Claim(s) _____ is/are objected to.</p> <p>8)<input type="checkbox"/> Claim(s) _____ are subject to restriction and/or election requirement.</p>		
<p><b>Application Papers</b></p> <p>9)<input type="checkbox"/> The specification is objected to by the Examiner.</p> <p>10)<input type="checkbox"/> The drawing(s) filed on _____ is/are: a)<input type="checkbox"/> accepted or b)<input type="checkbox"/> objected to by the Examiner.</p> <p>    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).</p> <p>11)<input type="checkbox"/> The proposed drawing correction filed on _____ is: a)<input type="checkbox"/> approved b)<input type="checkbox"/> disapproved by the Examiner.</p> <p>    If approved, corrected drawings are required in reply to this Office action.</p> <p>12)<input type="checkbox"/> The oath or declaration is objected to by the Examiner.</p>		
<p><b>Priority under 35 U.S.C. §§ 119 and 120</b></p> <p>13)<input type="checkbox"/> Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</p> <p>a)<input type="checkbox"/> All b)<input type="checkbox"/> Some * c)<input type="checkbox"/> None of:</p> <p>    1.<input type="checkbox"/> Certified copies of the priority documents have been received.</p> <p>    2.<input type="checkbox"/> Certified copies of the priority documents have been received in Application No. _____.</p> <p>    3.<input type="checkbox"/> Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</p> <p>* See the attached detailed Office action for a list of the certified copies not received.</p> <p>14)<input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).</p> <p>    a)<input type="checkbox"/> The translation of the foreign language provisional application has been received.</p> <p>15)<input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</p>		
<p><b>Attachment(s)</b></p> <p>1)<input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</p> <p>2)<input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</p> <p>3)<input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.</p> <p>4)<input type="checkbox"/> Interview Summary (PTO-413) Paper No(s) _____.</p> <p>5)<input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</p> <p>6)<input type="checkbox"/> Other: _____</p>		

## **DETAILED ACTION**

1. In view of the Appeal Brief filed on 4/28/03, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 107 and 108 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dupin et al. (US Patent 6,066,308).

Dupin et al. discloses a process for producing alumina agglomerates, which possess exceptional mechanical strength, heat resistance and hydrothermal resistance and are useful as catalysts or catalyst supports (see abstract). The alumina material may be gamma alumina (col. 3, lines 7-10). The gamma alumina material is treated

with an aqueous solution of nitric acid. Dupin et al. continues to disclose wherein it is advantageous for the pH to below 4. The support material is calcined at a temperature between 250°C to 900°C (col. 3, lines 1-2). The support material shows improved attrition resistance (col. 7, lines 1-19).

Therefore, it would have been obvious to one of ordinary skill in the art to treat a gamma alumina support material with an acidic aqueous solution, such as nitric acid, and to then calcining the gamma alumina material at about 350°C, based on the teachings of Dupin et al, which teaches treating a gamma alumina material with nitric acid and calcining the gamma alumina material at a temperature between 250°C to 900°C. With respect to the pH, it would have been obvious to one of ordinary skill in the art to maintain the pH below 5, because Dupin et al., teaches using an aqueous solution comprised of nitric acid, as well as wherein the pH of the weak acid is maintained below 4. Furthermore, it is held that the aqueous solution is comprised of water.

***Allowable Subject Matter***

4. Claims 89-106 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: The cited prior art does not teach a cobalt on gamma alumina catalyst used in Fischer-Tropsch reactions, which calcining boehmite, as well as treating with an acidic solution.

Dupin et al. does not teach having a cobalt on alumina support in order to catalyze a Fischer-Tropsch hydrocarbon synthesis.

***Conclusion***

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonas N Strickland whose telephone number is 703-306-5692. The examiner can normally be reached on M-TH. 7:30-5:00, off 1st Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 703-308-3837. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-0661.

  
Jonas N. Strickland  
July 9, 2003

  
STANLEY S. SILVERMAN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 1700